

## ABSTRACT

An objective is to provide a microcomputer, electronic equipment and emulation method which can realize the optimum circumstance of evaluation while saving the number of terminals. An external bus is shared between external and emulation memories. In the emulation mode, the access of CPU to an internal ROM is switched to the access of CPU to the emulation memory through an external bus. The emulation mode is turned ON or OFF through a mode selection terminal or mode selection register. The emulation memory is controlled by a control signal CNT2 different from a control signal CNT1 which controls the external memory. A memory read signal in CNT2 become active at a timing earlier than that of a memory read signal in CNT1. Thus, the instruction is fetched and decoded within one clock cycle. A mode selection terminal is further provided for selecting a mode of performing the boot from the emulation memory, internal ROM or external memory and a mode of selecting OPT mode.